

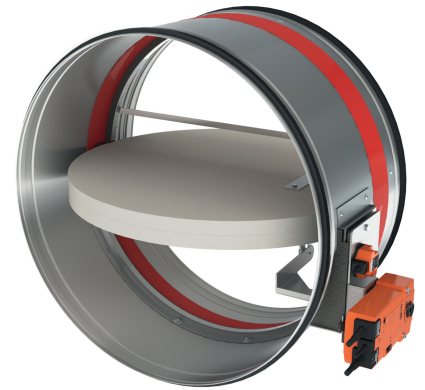
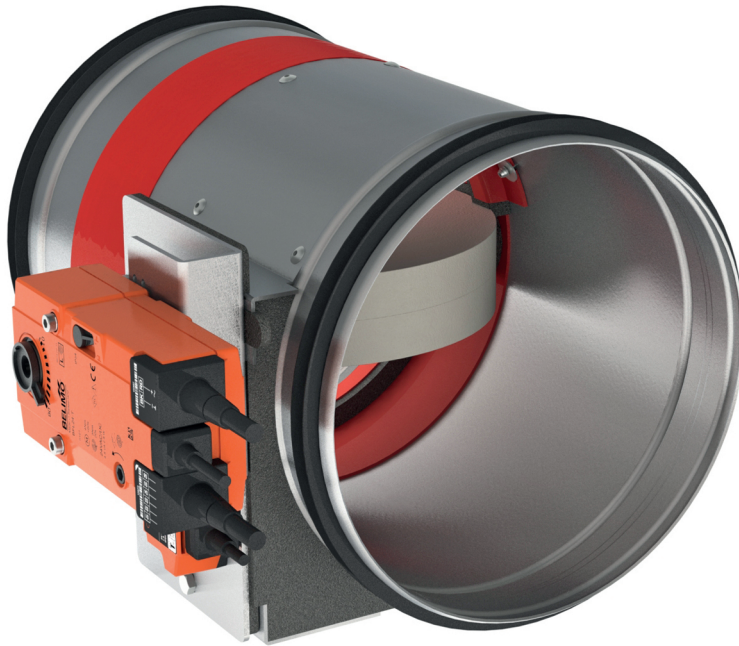


E.01

Fire dampers

**CR2+BFLT/BFNT  
230**

- Fire dampers
- Circular
- E120S
- Motorized
- BELIMO 230V
- Ø 355 - 630



## Motorized circular fire dampers E120S type CR2+BFLT/BFNT 230

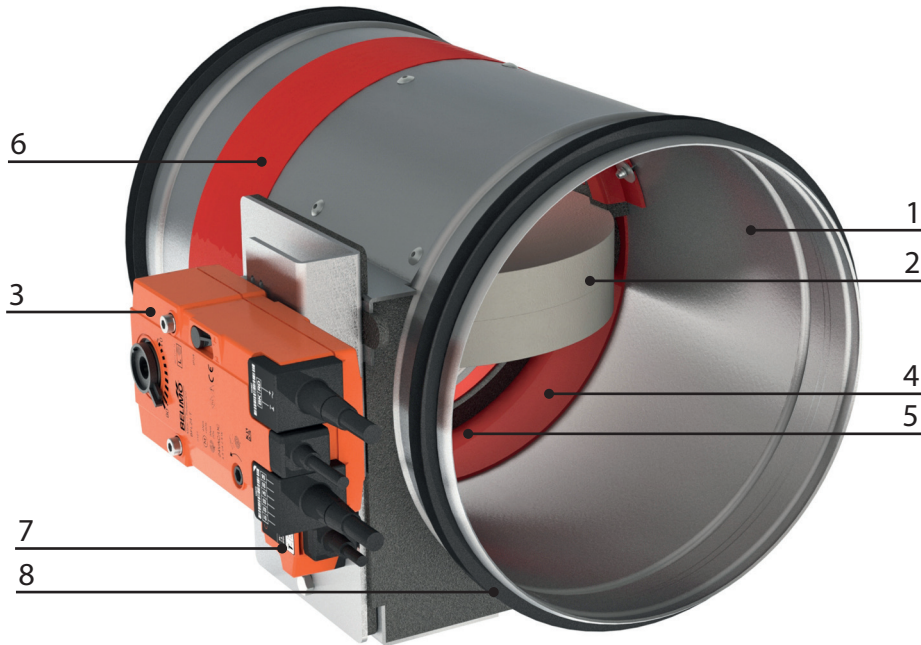
Motorized circular fire dampers with a fire resistance of 120 Minutes. When the temperature of the thermo-electric fuse in the damper rises above 72 °C the damper will close. When closed, the expanding material around the fireblade will assure a fire and air-tight seal against hot air and smoke. The tunnel is made out of galvanized steel. The **CR2 + BFLT/BFNT 230** fire dampers have a motorized operating mechanism with indication of the blade position including begin or end of range switch.

### Application

- Fire compartmentation
- To close and seal off ventilation ducts in case of fire
- For air temperatures of -10°C up to temperature of the thermo-electric fuse
- For air with RV 0-96%
- Range of Ø355 up to Ø630 mm
- For size Ø100 upto Ø315 see type CR120
- To be mounted horizontally or vertically

### Material

- Galvanized steel

**Construction**

**Composition**

- Galvanized steel tunnel
- Fireproof blade in fibersilicate
- Intumescent strip around the valve
- 230V Actuator BELIMO BFLT230 (small valves) or BFNT230 (other sizes)

- 1. Refractory casing
- 2. Damper blade
- 3. Operating mechanism with:
  - manual rearmation option
  - blade position indicator
- 4. Sealing cold smoke
- 5. Blade bumper
- 6. Intumescent strip
- 7. Thermo-electric fuse
- 8. Rubber sealing ring

**Mounting**

- To be inserted in fire resistant walls or floors according to the mounting instructions delivered with the valves
- To be connected with round air ducts
- To be electrically wired to the fire detection or building installation

**Certification**

- Classified EI120( $v_e, h_o$  i<->o)S at 500Pa according EN 13501-3 in rigid wall and rigid floor.
- Classified EI60( $v_e$  i<->o)S at 500Pa, EI90( $v_e$  i<->o)S at 300Pa and EI120( $v_e$  i<->o)S at 500Pa according EN 13501-3 in different flexible wall types.
- Certified with test report Efectis 10-A-459 / EFR-19-005409 or WFRG 16128
- Airtight EN 1751 class B, Class C upon request
- CE marked

**Accessories**

- Fire resistant plaster **BP**

**Text for tender**

- The fire dampers shall be of the round type with a fire resistance of 120 Minutes, certified according to EN 13501-3. They will consist of a galvanized steel tunnel and fireproof valve. The control mechanism will be automatically operated by means of an actuator and shall have a blade position indicator and thermo-electrical fusible link of 72 °C
- type **CR2 + BFLT/BFNT 230**



**Order example**

■ **CR2 + BFLT 230, 315**

Explanation

**CR2** = Round fire damper 120 minutes

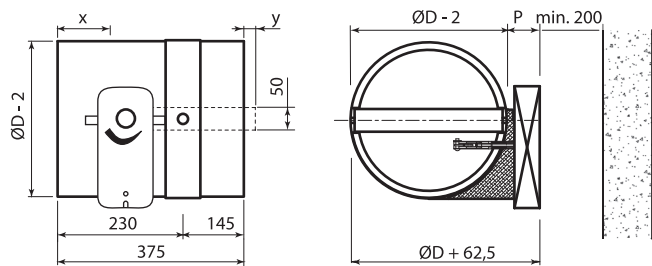
**B(L)FT 230** = Actuator 230V with thermostatic fuse

**315** = Connection diameter

Quick selection										
øD	Ak	v	1	2	3	4	5	6	7	8
200	0.013	Q	113	226	339	452	566	679	792	905
		Vk	2.40	4.90	7.30	9.70	12.20	14.60	17.02	19.40
		Ps	4.50	17.80	40	71	111	160	218	285
		Lw(A)	30	40	46	50	53	56	58	60
		Q	177	353	530	707	884	1060	1237	1414
250	0.025	Vk	1.90	3.90	5.80	7.80	9.70	11.70	13.60	15.50
		Ps	2	10	21	38	59	86	116	152
		Lw(A)	28	38	44	49	52	55	57	59
		Q	281	561	842	1122	1403	1683	1964	2244
		Vk	1.70	3.30	5	6.60	8.30	9.90	11.60	13.20
315	0.047	Ps	1	5	12	21	33	47	64	83
		Lw(A)	27	37	43	47	50	53	55	57
		Q	356	713	1069	1425	1782	2138	2494	2851
		Vk	1.50	3.10	4.60	6.20	7.70	9.30	10.80	12.40
		Ps	1	4	9	16	24	35	48	62
355	0.064	Lw(A)	26	36	42	47	50	52	55	57
		Q	452	905	1357	1810	2262	2714	3167	3619
		Vk	1.50	2.90	4.40	5.90	7.30	8.80	10.20	11.70
		Ps	1	3	7	12	18	26	36	46
		Lw(A)	25	36	42	46	49	52	54	56
400	0.086	Q	573	1145	1718	2290	2863	3435	4008	4580
		Vk	1.40	2.80	4.20	5.60	7	8.40	9.80	11.20
		Ps	1	2	5	9	14	20	27	35
		Lw(A)	25	35	41	45	48	51	53	55
		Q	707	1414	2121	2827	3534	4241	4948	5655
450	0.114	Vk	1.30	2.70	4	5.40	6.70	8.10	9.40	10.80
		Ps	0	2	4	7	11	16	21	28
		Lw(A)	24	34	40	45	48	51	53	55
		Q	887	1773	2660	3547	4433	5320	6207	7093
		Vk	1.30	2.60	3.90	5.20	6.50	7.80	9.10	10.40
500	0.146	Ps	0	1	3	5	8	12	16	22
		Lw(A)	24	34	40	44	47	50	52	54
		Q	1122	2244	3367	4489	5611	6733	7855	8978
		Vk	1.30	2.50	3.80	5	6.30	7.60	8.80	10.10
		Ps	0	1	2	4	7	10	14	18
560	0.189	Lw(A)	23	33	39	43	47	49	52	54
		Q	1414	2827	4241	5655	7069	8483	9897	11311
		Vk	1.30	2.60	3.90	5.20	6.50	7.80	9.10	10.40
		Ps	0	1	3	5	8	12	16	22
		Lw(A)	24	34	40	44	47	50	52	54
630	0.247	Q	1122	2244	3367	4489	5611	6733	7855	8978
		Vk	1.30	2.50	3.80	5	6.30	7.60	8.80	10.10
		Ps	0	1	2	4	7	10	14	18
		Lw(A)	23	33	39	43	47	49	52	54

**Symbols and specifications**

- Ak = Effective area in m<sup>2</sup>
- v = Air velocity in the duct in m/s
- Q = Air volume in m<sup>3</sup>/h
- Vk = Effective velocity through the damper in m/s
- Ps = Static pressure in Pa
- Lw(A) = Acoustic power in dB(A)
- Dia = Duct diameter in mm



CR2 + BFLT/BFNT 230	Dimensions					
	P	Q	Z (H<300)	Z (H>=300)	x	y
	110	210	80	180	=(ØD/2)-263	=(ØD/2)-132



Electrical connection

